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NOTICE OF ALLOWANCE AND FEE(S) DUE

34036

7590

05/04/2009

Silicon Valley Patent Group LLP 18805 Cox Avenue Suite 220 Saratoga, CA 95070

EXAMINER					
AKANBI, ISIAKA O					
ART UNIT	PAPER NUMBER				

2886

DATE MAILED: 05/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,865	07/28/2006	Victor Higgs	NAN165 US (8037)	4772

TITLE OF INVENTION: DETECTION METHOD AND APPARATUS METAL PRATICULATES ON SEMICONDUCTORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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18805 Cox Aver Suite 220	Patent Group LLI nue	<i>V</i> 2009 ?	I S a t	here States iddre ransr	by certify that this Postal Service with	ficate of Mailing or 7 Fee(s) Transmittal is h sufficient postage f Stop ISSUE FEE ad O (571) 273-2885, on	being or first	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
Saratoga, CA 95	5070		[(Depositor's name)
								(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	1	ATTORNEY DOCKET I	4O.	CONFIRMATION NO.
10/549,865 TITLE OF INVENTION	07/28/2006 N: DETECTION METHO	DD AND APPARATUS N	Victor Higgs METAL PRATICULAT	ES C	ON SEMICONDUC	NAN165 US (8037 CTORS)	4772
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	JE I	PREV. PAID ISSUE	FEE TOTAL FEE(S)) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	\$1810		08/04/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
AKANBI,	ISIAKA O	2886	356-237500					
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DAT. less an assignee is ident th in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on the	native ingle or ag attorn be por type type an as	firm (having as a reent) and the names easy or agents. If no rinted.	nember a 2 of up to o name is 3	the do	cument has been filed for
4a. The following fee(s)			b. Payment of Fee(s): (I	Pleas	-	-		up entity Government
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
	ns SMALL ENTITY state	us. See 37 CFR 1.27.	b. Applicant is no					R 1.27(g)(2).
interest as shown by the	records of the United Sta	ites Patent and Trademark	k Office.	.u. u.i	c applicant, a regist	crea anorney or agent	, 01 1110	assignee of outer party II
Authorized Signature					Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 Outality is governed by 35 d application form to the ions for reducing this buyirginia 22313-1450. DO 313-1450.	CFR 1.311. The information of U.S.C. 122 and 37 CFR to USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain 1.14. This collection is y depending upon the ir he Chief Information Of COMPLETED FORMS	or ret estir idivid ficer, TO	tain a benefit by the mated to take 12 m dual case. Any com , U.S. Patent and T THIS ADDRESS.	e public which is to fil inutes to complete, in- iments on the amount rademark Office, U.S SEND TO: Commissi	e (and cluding of tim . Depai ioner fo	by the USPTO to process) g gathering, preparing, and se you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450.

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Silicon Valley P	atent Group LLP	AKANBI, ISIAKA O		
18805 Cox Avenu	*		ART UNIT	PAPER NUMBER
Suite 220 Saratoga, CA 95070			2886 DATE MAILED: 05/04/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 206 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 206 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/549,865	HIGGS, VICTOR	
Notice of Allowability	Examiner	Art Unit	
	ISIAKA O. AKANBI	2886	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s and MPEP 1308.	this application. If not included nication will be mailed in due course.	
2. ☑ The allowed claim(s) is/are <u>1-3 and 5-19</u> .			
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application cuments have been received	n No in this national stage application from	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit	ENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE (
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the depose attached Examiner's comment regarding REQUIREMENT I	t be submitted. on's Patent Drawing Review s Amendment / Comment or 84(c)) should be written on the he header according to 37 CFI sit of BIOLOGICAL MATE	(PTO-948) attached in the Office action of e drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☐ Examiner's . —	ormal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

DETAILED ACTION

Amendment

The amendment filed on 27 February 2009 has been entered into this application.

Allowable Subject Matter

Claims 1-3 and 5-19 are allowed.

As to claim 1, the prior arts of record, taken alone or in combination, fails to disclose or render obvious annealing a semiconductor structure to diffuse contaminants from a surface particulate into the semiconductor material and after annealing the semiconductor structure, exposing the surface of the semiconductor structure in the vicinity of a surface particulate to at least one high- intensity beam of light from a suitable light source, in combination with the rest of the limitations of the claim. Claims 2-3 and 5 are allowable by virtue of their dependency.

As to claim 6, the prior art of record, taken alone or in combination, fails to disclose or render obvious exposing the surface of the semiconductor structure in the vicinity of a surface particulate to at least one high-intensity beam of light from a suitable light source; and a heating step to the semiconductor to diffuse contaminant from the particle into the semiconductor material, in combination with the rest of the limitations of the claim. Claims 7-13 are allowable by virtue of their dependency.

As to claim 14, the prior art of record, taken alone or in combination, fails to disclose or render obvious means to heat the sample under test associated with the support to diffuse contamination from a particulate into a semiconductor structure of the

sample under test; a high intensity light source; and means to focus a high intensity beam of light from the light source onto a surface of a semiconductor sample under test on the support, in combination with the rest of the limitations of the claim. Claim 15 is allowable by virtue of its dependency.

As to claim 16, the prior art of record, taken alone or in combination, fails to disclose or render obvious a high intensity light source; means to focus a high intensity beam of light from the light source onto a surface of a semiconductor sample under test on the support; heating means to heat the sample in situ, allowing a photoluminescence response to be measured before and after heating, in combination with the rest of the limitations of the claim. Claims 17-19 are allowable by virtue of their dependency.

The reference of Higgs (2004/0106217 A1) discloses illuminating the wafer with a laser to produce photoluminescence (PL) images. However Higgs fail to disclose, teach or suggest annealing a semiconductor structure to diffuse contaminants from a surface particulate into the semiconductor material and after annealing the semiconductor structure, exposing the surface of the semiconductor structure in the vicinity of a surface particulate to at least one high- intensity beam of light from a suitable light source.

Response to Arguments

Applicant's arguments/remarks, see pages 1-5, filed on 27 February 2009, with respect to the rejection(s) of claim(s) 1-3 and 5-19 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the

Art Unit: 2886

examiner should be directed to Isiaka Akanbi whose telephone number is (571) 272-8658. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarifur R. Chowdhury can be reached on (571) 272-2287. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Isiaka Akanbi

April 30, 2009

/TARIFUR R CHOWDHURY/

Supervisory Patent Examiner, Art Unit 2886